USSR/Human and Animal Morphology (Normal and Pathological). Reproductive System.

S**-**5

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74400

Author : Tonchiveva, 0. I.

Inst : AS USSR.

Title : On Reactive Changes of the Endometrium by

Action of Chemical Stimulants.

Orig Pub: Dokl. AN SSSR, 1956, 110, No 4, 677-679

Abstract: Reactive changes of the endometrium by 28

nonpregnant female rabbits, responding to introduction into the tubular opening of the uterus of 0.5 ml of a 1% solution of iodine diluted in 70% alcohol or a 0.2 ml of a 50% solution of turpentine in vegetable oil, were studied. Upon introduction of io-

Card : 1/4

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

USSE/Human and Animal Morphology (Normal and Pathological). Reproductive System.

s-6

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74400

dine solution in early stages (12-24 hours), necrosis of mecous membrane occurred; after 48 hours, a sharply-defined zone of necrosis was discovered, deposits of fibrine, hemorrhages and, in the adjoining unaffected layer, pronounced proliferation of connective-tissue cells around the vessels. Leukocytic reaction is poorly pronounced. After 3-4 days, the necrotic layer of mucous membrane detaches and there remains a layer of granulations, which grow first and later transform into fibrous cicatrical tissue, as a consequence of which the lumen of the horn narrows and in parts becomes obliterated. From 3-4 days, the

Card : 2/4

57

USSR/Human and Animal Morphology (Normal and Pathological). Reproductive System.

s-6

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74400

process of epithelization begins which ends towards the 10th day. Epithelium, growing over the granulation tissue, has a peculiar form and forms an angrowth of glandular tubes into underlaying tissue. With introduction of turpentine, after 6 hours the lumen of the horn is widened by inflammatory exudate; after 24 hours there is necrosis of the mucosa. After demarcation of the necrotic layer, epithelization of granulation tissue occurs. For the horn of the uterus, fast elimination of injuring substances and necrotic masses from the lumen, and a course of imflammatory processes and regeneration of mucous membrane, is characteristic. The character of the inflammatory reaction

Card : 3/4

USSB/Human and Animal Morphology (Normal and Pathological). Reproductive System.

5-6

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74400

depends on the nature of the irritant. With injury with turpentine, leukocytic reaction is principally observed; with action of iodine solution, an accumulation of macrophages and development of granulation tissue is observed. The inflammatory and regenerative growth of the epithelium, as well as its structure, mostly depend on the character of the underlaying connective tissue. —— 1. P. Dyban

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

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TOPCHIYEVA, O.I., kand. med. nauk

Role of atypical endometrial changes (the Arias-Stella reaction) in the diagnosis of disorders in extrauterine pregnancy. Akush. i gin. 39 no.4119-22 Jl-Ag 63 (MIRA 16:12)

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhennyy deyatel* nauki prof. I.I.Yakovlev) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

TOPCHIYEVA, O.I.; ZHEMKOVA, Z.P.

Characteristics of the structure of the human platenta in prolonged pregnancy. Akush. i gin. 40 no.5:54-57 S-0 '64. (MIRA 18:5)

1. Kafedra akusherstva i ginekologii (zav. - prof. I.I.Yakovlev) I Leningradskogo meditsinskogo instituta i otdel embriologii Instituta eksperimental'noy meditsiny (zav. - chlen-korrespondent AMN SSSR prof. P.G.Svetlov) AMN SSSR, Leningrad.

TOPCHIYEVA, O.I.

Effect of estrogenic hormones on the course of inflammatory and regenerative processes of the endometrium. Akush. i gin. no.6:79-84 (MIRA 17:12) N-D 163.

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhennyy deyatel nauki prof. I.I.Yakovlev) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova i otdel patologicheskoy anatomii (zav. - akad. N.N. Anichkov) Instituta eksperimental noy meditsiny AMN SSSR.

TOPCHIYEVA, O.I.

Reactive changes of the endometrium due to chemical stimuli.Dokl. AN SSSR 110 no.4:677-679 0 156. (MIRA 10:1)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR. Predstavleno akademikom N.N. Anichkovym. (UTERUS)

LATKINA, O.A.; TOPCHYEVA, O.I.

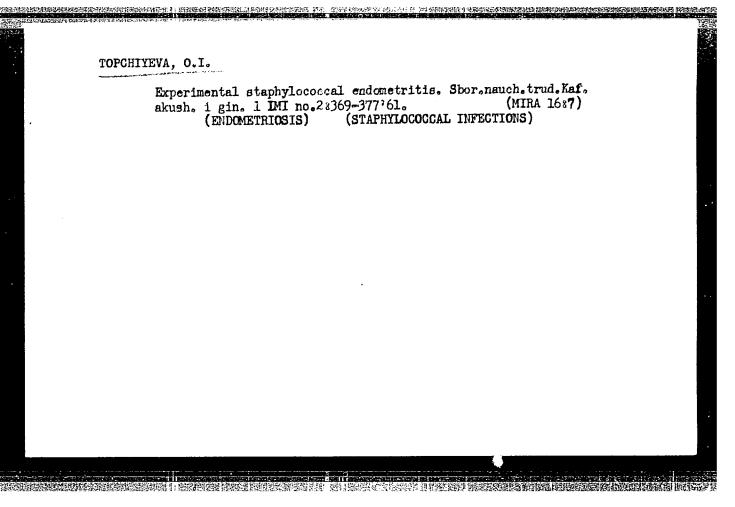
Significance of a cytological method in the detection of early stages of cancer of the cervix uteri at a gynecological consultation center. Akush. i gin. 36 no.3:47-50 My-Je '60. (MIRA 13:12) (UTERUS-CANCER)

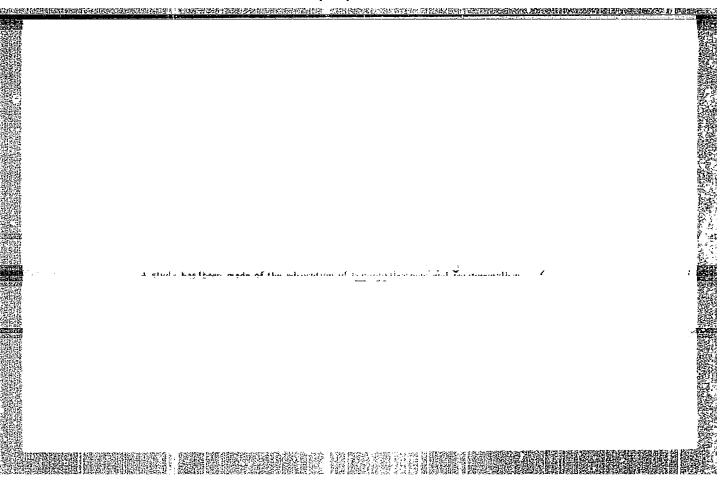
(MIRA 16:7)

Comparative evaluation of the results of cytological and histological laboratory examination and the Aschheim-Zondek reaction in the diagnosis of extrauterine pregnancy. Sbor, nauch, trud, Kaf.

TOPCHIYEVA, O.I.; SEMENOVA, I.I.

akush. i gin. l IMI no.28362-68'61. (PREGNANCY, EXTRAUTERINE)





APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

CONTROL TO SERVED STATEMENT OF THE PROPERTY OF

SKABALLANOVICH, I.A., doktor geol.-miner. nauk, otv. red.;

MEL'NIKOV, G.B., doktor biol.nauk, red.; KHMARSKIY,

N.Z., kand. geol.-min. nauk, red.; TOPCHIYEV, Ye.A.,

inzh., red.

[Transactions of the Conference on the Hydrogeology and Engineering Geology of the Dnieper Reservoir Region and Dnieper Valley Irrigation Systems] Trudy Soveshchaniia po gidrogeologii i inzhenermoi geologii raiona dheprovskikh vodokhranilishch i irrigatsionnykh sistem Pridneprov'ia. Dnepropetrovsk, Nauchmo-issl. in-t geol., 1962. 252 p. (MIRA 17:3)

1. Soveshchaniye po gidrogeologii i inzhenernoy geologii rayona dneprovskikh vodokhranilishch i irrigatsionnykh sistem Pridneprov'ya, 1962. 2. Dneprovskiy gosudarstvennyy universitet (for Skaballanovich, Mel'nikov, Khmarskiy).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

TOPCHIYEVA, Ye. P.

PRE AND THE TAXABLE OF THE TAXABLE AND THE PROPERTY OF THE PR

"The Effect of the Efferent Nerves of the Heart on the Sensitivity of the Heart to Humoral Actions." Cand Med Sci, L'vov State Medical Inst, L'vov, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556 24 Jun 55

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

I OPCHIYEVA, Ye. T. CHOP)

AID P - 2459

Subject : USSR/Medicine

Card 1/2 Pub. 37 - 6/18

Authors : Bukhovets, V. I., Kand. of Med. Sci., Val'chuk, N. K.,

Kand. of Biol. Sci., Vitte, N. K., Prof., Gabovich, R.D.,

Prof., Topchieva, Ye. P., Kand. of Med. Sci.

Title : Comparative physiological and hygienic evaluation of

the conditions of work on tractors

Periodical: Gig. 1 san., 6, 26-33, Je 1955

Abstract : Describes the scientific research work conducted by

different departments of the Vinnitsa Medical Institute since January 1954, for the study of health conditions

of tractor operators depending on the structural

characteristics of caterpillar and wheel tractors of different make, on the type of agricultural work and daily schedule, climate, weather, etc. The investigations were performed chiefly at the Vinnitza Machine Tractor

Station Base during the Sowing Campaign of the spring 1954. The effect of noise, of dust content and carbon

Gig. 1 san., 6, 26-33, Je 1955

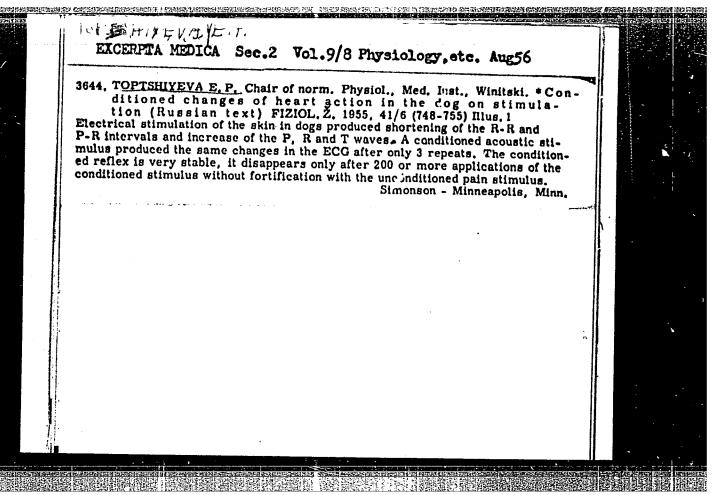
AID P - 2459

Card 2/2 Pub. 37 - 6/18

monoxide concentration in the air, and of special structural features of tractors on the physiological reactions of operators are analyzed. Recommendations are made. 4 tables.

Institution: Vinnitsa Medical Institute

Submitted: Sept. 18, 1954



TOPCHIYEVA, Ye.P.

Electric potentials of the nerve cells of intracardiac ganglia in frogs. Fiziol. zhur. 49 no.2:208-213 F*64 (MIRA 17:3)

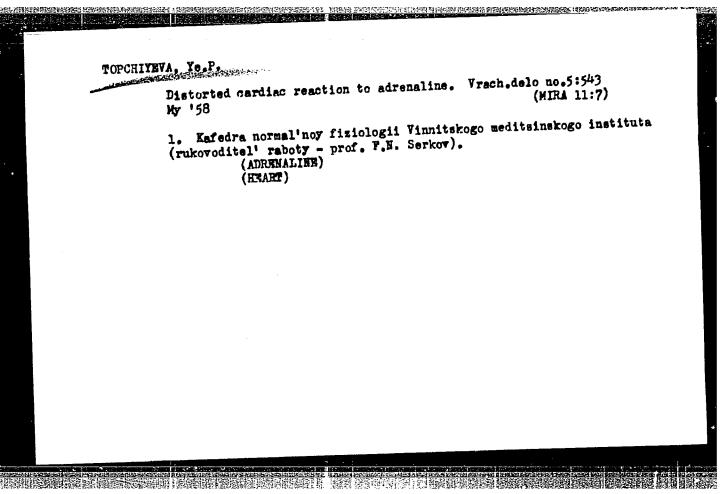
1. Meditsinskiy institut imeni Pirogova, Vinnitsa i Meditsin-skiy institut imeni Pirogova, Odessa.

TOPCHIYEVA, Ye. P. Cand Med Sci -- (diss) "The interrelation between the nervous and the humoral influences and their effect on the heart."

Odessa, 1956. 10 pp (Cdessa State Medical Inst im N.I.Pirogov). 100 copies.

(KL, 37-58, 113).

- 36 -



VITTE, N.K.: MIZRUKHIN, I.A.: TOPCHIYEVA, Ye.P.

Registration of cerebral and cardiac bioelectric potentials in schizophrenics during sleep. Zhur.nevr. i psikh. 59 no.4:416-421 '59.

1. Kafedra psikhiatrii (zav. - prof.I.A.Mizrukhin) i kafedra fiziologii (zav. - prof.N.K.Vitte) Vinnitskogo meditsinskogo instituta.

(SCHIZOPHRENIA, physiol.

ECG & KEG during sleep (Rus))

(ELECTROCARDIOGRAPHY, in var. dis.
schizophrenia, during sleep (Rus))
(ELECTROENCEPHALOGRAPHY, in var. dis.
same)
(SLEEP, physiol.
ECG & EEG in schizophrenics (Rus))

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

TOPCHIYEVA, Ye.P.

Electric responses from individual neurons of the intramural cardiac ganglia in frogs following stimulation of the vagus and sympathetic nerves. Fiziol. zhur. 51 no.10:1231-1237 0 *65. (MIRA 18:12)

1. Kafadra normal!noy.fiziologii.Vinnitakogo meditainakogo inatituta i Kafadra normal!noy fiziologii Odeaakogo meditainakogo inatituta. Submitted January 6, 1964.

VITTE, N.K., prof.; MIZRUKHIN, I.A., prof.; TOPCHIYEVA, Ye.P., kand.med.

Change in thermoregulation in schizophrenics during treatment.with aminazine. Vrach. delo no.4:97-100 Ap '61. (MIRA 14:6)

1. Kafedra psikhiatrii (zav. - prof. I.A.Mizrakhin) i kafedra normal'noy fiziologii (zav. - prof.N.K.Vitte) Vinnitskogo meditainskogo instituta.

(SCHIZOPHRENIA) (CHLORPROMAZINE) (BODY TEMPERATURE)

S/275/63/000/002/024/032 D405/D301

AUTHORS:

Topchubashov, M.A. and Memmedov, I.A.

TITLE:

Automatic quality control of oil products by ultra-

sonic method

PERIODICAL:

Referativnyy zhurnal, Elektronika i eye primeneniye, no. 2, 1963, 23, abstract 2V144 (Energetika inst. eserleri. AzerbSSR Elmler Akad., Tr. Energ. in-ta AS-AzerbSSR, v. 15, 1962, 155-165 (Azerbaydzhani: summary in Rus.))

The advantages of the ultrasonic quality control method of oil products are listed, viz.: 1) the possibility of con-TEXT: tinuous process-control; 2) high accuracy and speed; 3) no disruption of the engineering process. An ultrasonic generator circuit is proposed which excites a magnetostriction transducer. The frequencyresponse characteristics are given of the system as a whole, as well as of its various elements, that are necessary for the design of the control system. 6 references.

__Abstracter's note: Complete translation__

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5" SIMONYAN, A.T., prof.; AYVAZYAN, A.A., kand.med.nauk; GYULIKEKHVYAN, N.G.; TOPCHYAN, A.A.

Data on the etiology, pathogenesis, and treatment of nephrosis. Sov.med. 25 no.2:24-36 F '61. (MIRA 14:3)

1. Iz kafedry gospital noy terapii (zav. - prof. A.T. Simonyan) Yerevanskogo meditsinskogo instituta (direktor - dotsent S.N. Galstyan). (KIDNEYS-DISEASES)

NAME OF THE PARTY OF THE PARTY

CHIGVINADZE, D.M.; TOPCHYAN, L.S.; NATSVLISHVILI, G.I.

Effect of the direction of heat transfer on the orientation of the growth of single crystals of some nonferrous metals.

Trudy Inst.fiz.AN Gruz.SSR 8:267-275 *62. (MIRA 16:2)

(Metal crystals—Growth)

TOPCHYRE, Zh. S., Cand Med Sci -- "Certain problems of the cardiac condition when treating patients under conditions of the Dzhermuk high-altitude balneotherapeutic health resort."

Yereyan, 1961. (Sci Res Inst of Health Resort Sci and Phys Methods of Therapeutic Methods Min of Health Arssr. Admin of Dzhermuk Health Resort, Republic Health Resort Man of Trade Unions Arssr) (KL, 8-61, 265)

- 530 -

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

TOPCHYAN, M. S.

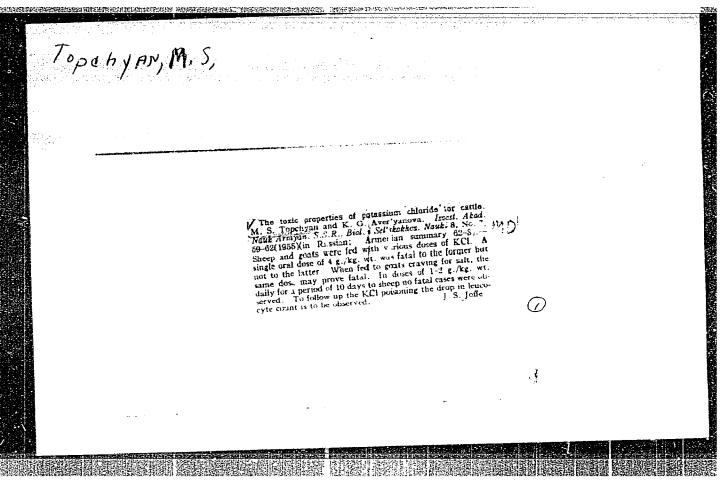
"Complications from Using DDT to Control Ox Warble Flies"

Armenian Scientific Research Veterinary Institute

Veterinariya, No. 7, July 1950, pp 42-45 (HEXACHLORANE AND DDT - by A. A. Zhikharev, from

Material Received by the Editor) 1,-page surmary

U-5472, p 7



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

TOPCHYEN, E. A., Eng.

Runoff

Short-cut calculations of the local runoff over a period of many years. Gidr. i mel. 5, no. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

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RUMANIA

TOPCIU, Aurica, Dr., TEODORESCU, G., Chemist and DRAGHICI, M., Technician. Work performed at the Section of the Microbe Physiology (Sectia de Fiziologie Microbiana) and the Pathogenic Cocci Section (Sectia Coci Patogeni) of the "Dr. I Cantacuzino" Institute (Institutul Dr. I. Cantacuzino"), Bucharest.

"A New Medium for the Cultivation of Meningococci."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 8, No 1, Jan-Feb 1963, pp 91-94.

Abstract: Describes the materials and methods used for the preparation of a new culture medium for meningococci that also proved useful for the isolation of strains. It contains corn, glucose and agar extracts and, for more difficultly cultivable strains such as type I (628), type A Pasteur (52,136) and type A Pasteur (52,137), defibrinated sheep's blood. It is easily prepared and 20 times cheaper than the media used so far. Includes I table and 1/1 10 references.

TOPCIU, Aurica; POPESCD, Elvira

Research on directed resistance in Neisseria meningitidis. I. Variants of N. meningitidis directed "in vitro" by streptomycin. Arch. roum. path. exp. microbiol. 21 no.1:181-189 Mr '(:.

1. Travail de l'Institut "Dr. I. Cantacuzino" -- Service des Cocci Pathogenes.

(NEISSERIA MENINGITIDIS) (STREPTOMYCIN) (DRUG RESISTANCE, MICROBIAL)

TOPCIU, Aurica; POPESCO, Elvira.

Research on induced resistance in Neisseria meningitidis. II. Variants observed in N. meningitidis strains resistant "in vitro" to streptomycin. Arch. roum. path. exp. microbiol. 23. no.3:569-574 S'63

1. Travail de l'Institut *Dr. I. Cantacuzino*; Service des Cocci pathogenes. Bucarest.

SYABADOS, Judith; TOPOW, Aurica [deceased] > Research on directed resistance in Neisseria meningitidis. Pt.5.

Arch. Roum. path. exp. microbiol. 23 no.4:973-976 D 164.

1. Travail de l'Institut "Dr. I. Cantacuzino", Service de Biochimie Generale (for Szabados), Service des Cocci Pathogenes (for Topciu).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

是是是一个人,我们是是是国际的工作,这个人,这个人,这个人,这个人,我们是一个人,我们是一个人,我们就会一个人,我们就是一个人,我们就是这些人的人,我们就是这些人的人,

Rationalization, p. 26, TEKNIKA, (Ministria Industri-Miniera dhe Ndertim-Komunikacion) Tirane, Vol. 3, No. 2, Mar./Apr. 1956

SOURCE: East European Accessions List, (EFAL) Library of Congress, Vol. 5, No. 12, December 1995

RUMUHTA

Dr Aurica TOFCIU, Section on Fachogenic Cocci of the Institute (Sectio coci patogeni, Institutual) "Br. 1. Cantacuzine," Bucharest.

"Bacteriologic Diagnosis of Meningueoccal Infections."

Bucharest, Microbiologia, Farezicologia, Eridemiologia, Vol 7, No 6, Nov-Dec 1952; pp 497-307.

Abstract: A very detailed technical outline of methods of handling the specimens of cerebrospinal field, blood, skin ocrapings, joint exidate, conjunctival accretions, throat amears; media and incohation; necropsy specimens; morphologic, cultural, blochemical, enzymatic and secologic diagnostic procedures. Tables correlate 5 classifications of meningococci, and differential diagnosis of 8 species or strains of December and 2 of diplococci by il criteria. Two tables, no references.

1/1

PODHORSKI_COSTIN, Eugenia; TOPCIU, Aurica

Chemical study of the antigens extracted from different types of meningococci. Arch. Roum. path. exp. microbiol. 20 no.3:529-535 S '61.

1. Travail de l'Institut "Dr I. Cantacuzino" Services de Biochimie generale et des Cocci pathogenes.

(MENINGOCOCCUS immunology) (ANTIGENS chemistry)

15(8)

RUM/3-59-10-13/16

AUTHORS:

Mihail, P.; Istratoiu, R.; Topciu, R. and Petrescu, Gh.

TITLE:

Direct Polymerization of Propylene From the C3

Fraction

PERIODICAL: Revista de Chimie, 1959, Vol 10, Nr 10, pp 602-606

ABSTRACT:

Rumania has rich reserves of propylene whereas its aromatics are limited; it was, therefore, natural to try to obtain polystyrene on the basis of an aliphatic product. When the problem arose, Rumania lacked a separation installation for concentrated propylene, needed in polymerization.
A solution was found by obtaining polypropylene directly from the C3 fraction which abounds in Rumanian refineries. Since in the near future important quantities of polypropylene will have to be produced, it was decided to test the procedures in a semi-industrial installation to evaluate the results technically and economically. Pertinent literature indicates the use of a

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

RUM/3-59-10-13/16

Direct Polymerization of Propylene From the C3 Fraction

monomer with high gas concentration (more than 95%), the polymerization being effected in a hydrocarbon solvent (pentane, hexane, etc.). The author enumerates the various advantages and disadvantages of the procedure. Experiments in the laboratory were at first conducted by using a synthetic C3 fraction whereas presently, the process is being carried out with the C3 fraction from refineries. The specific proclems of the new procedure are: Desulfurization and purification of the C3 fraction to make it capable of polymerization; the polymerization of propylene contained in the C3 fraction without using another solvent; the use of residual gases remaining after polymerization; and the establishing of a technological scheme for designing a semi-industrial installation. In the laboratory, the mixture was achieved in an V2A autoclave with an anchor-type agitator, the separation being achieved by distending the

Card 2/3

RUM/3-59-10-13/16

Direct Polymerization of Propylene From the C3 Fraction

gases; in the semi-industrial installation special mixers will be used, the two phases will be separated in separators while the desulfurized C3 fraction after drying is sent to the polymerization installation. Figure 1 shows the semi-industrial installation. Parameters characteristic of the new system are: the conversion as a function of the concentration and the nature of the catalyst; the molecular weight as a function of the molar ratio catalyst/cocatalyst; the conversion as a function of the temperature of the raaction; conversion as a function of the time of the reaction; and the importance of agitation. Figure 8 suggests a design for the industrial installation based on the results obtained in the laboratory. There are 2 flow charts, 1 diagram, 5 graphs and 2 tables.

Card 3/3

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

RUMANIA

GLUHOVSCHI, N., Prof Dr., TOPCIU, V., Dr., ELIAS, M., Dr., LEVIN, S. Dr, STAN, M. Dr, PUCA-CIUDIN, M. Dr, and NAFORNITA, M., Eng, of the Agronomic Institute (Institutul Agronomic), Timisoara, and the Institute of Medicine (Institutul de Medicina), Timisoara.

"Abortions and Premature Births in Pigs and Sheep Caused by Certain Infectious Agents."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 8, Aug 63, pp 80-88.

Abstract [Authors' English summary modified]: A report on experimental work by the authors undertaken because a focus of toxoplasmic abortion was identified in a herd of sheep in Banat Regiune. Abortion and birth mortality were not preceded by characteristic prodromal symptoms; the placenta of the foetus showed typical lesions, and abortion was due to intra-uterine infection of the foetus. Pyrimethamine seems to be useful as a chemical prophylactic measure. The authors were able to reproduce experimentally both the toxoplasmic abortion of sheep and the clinical course of the disease.

Includes 2 figures, 4 tables and 20 references, of which 11 Western and 10 Eastern.

RUMANIA/Human and Animal Physiology - Internal Secretion.

T - 7

Suprarenal Glands.

Abs Jour : Ref Zhur - Biol., No 18, 1958, 84394

Author : Toncin, VI., Schorscher, E., Tomescu, C.

Inst : Rumanian AS

Title : Gonadotropic Inefficacy of Adrenalin.

Orig Pub : Studii si cercetarii endocrinol. Acad. R.P.R., 1955, 6,

No 3-4, 554-556

Abstract : As 1 ml of a 0.1 percent adrenalin solution (I) was injec-

ted into male frogs, a rapid secretion of spern occurred in 100 percent of the cases, but if 0.5 ml were injected, this phenomenon occurred in 30 percent of the cases only. As gonadotropic hormones (GH) were introduced, sperm secretion began one hour after GH was administered. If GH

(10-20 ml of a pregnant women's urine) were administered

Card 1/2

CIA-RDP86-00513R001756310012-5" APPROVED FOR RELEASE: 08/31/2001

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

RUMANIA / Diseases of Farm Animals. Diseases Caused by R

Bacteria and Fungi

Abs Jour: Ref Zhur-Biologiya, No 16, 1958, 74176

Author : Gluhovschi, N., Topciu, V., Neta, I., Glavan, B.

Inst : Not given

Title : Diagnosis of Leptospirosis in Horses. Clinical,

Epizztiological and Laboratory Investigations,

Treatment

Orig Pub: Studii si cercetari stiint. Acad. RPR. Baza Timi-

soara. Ser. Stiinte med., 1956, 3, No 3-4, 121-131

Abstract: No abstract.

1/1

1

TOPCIU, V1.; VINES, V.

Cold agglutinins in syphilis. Stud. cercet. inframicrobiol., Bucur. 7 no.1-2:189-192 Jan-June 56.

(SYPHILIS, blood in cold agglutinins, determ. & frequency)
(AGGLUTINATION cold agglutinins in syphilis)
(PNEMMONIA, PRIMARY ATYPICAL, diagnosis serodiag., cold agglutinin test, validity)

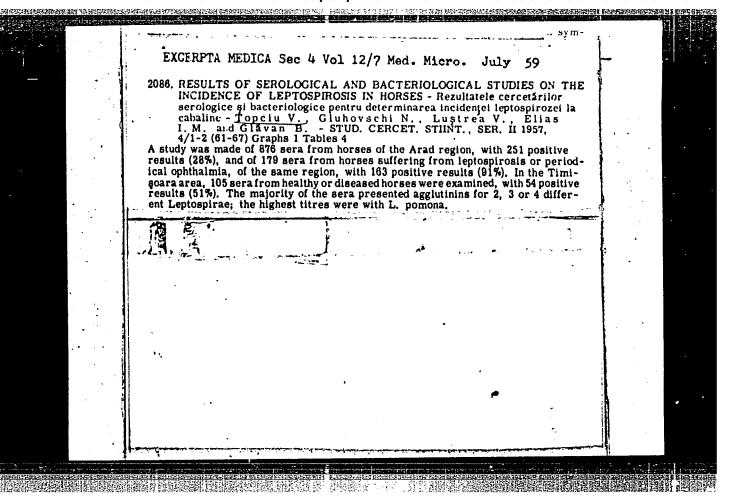
60°000 元的 可是它们的现在分词是不是一种的人,但是是一种的人,但是是一种的人,但是是一种的人,但是是一种的人,但是一种的人,但是一种的人,但是一种的人,

BUSILA, V.T.; BACILA, E.; ROSIU, L.; TOPCIU, V.; BARBULESCU, L.;
DAMIAN, I.

Contribution to the epidemiology of Q fever. Stud. cercet.
inframicrobiol., Bucur. 7 no.3-4:295-301 July-Dec 56.

1. Comunicare prezentata in a edinta Institutul: i de
inframicrobiologie al Academiei R.P.R.

(Q FEVER, epidemiology
in Rumania, epidemic in a gricultural community)



RUMANIA / Virology - Human and Animal Viruses.

E

Abs Jour: Ref Zhur-Biol., No 9, 1958, 38246.

Author : Busia, V. T., Topciu, V., Pop, O., Minciu, E.,

Reichrath, S.

Inst : Not given.

Tithe : Isolation of Coxsackie Virus in a Case of

Epidemic Myalgia.

Orig Pub: Viata med., 1957, 4, No 4, 54-57.

Abstract: No abstract.

Card 1/1

45

SPINU,I.; TOPCIU,VI.; TRINH THI HANG QUY; VO VAN HUNG; NGUYEN SY QUOC; CHU XUAN LUONG; LI VAM TUYEN; NGUYEN VAN AN.

Man as a viral reservoir in an epidemic of leptospirosis occuring in the jungle. Arch. roum. path. exp. microbiol. 22 no.421081-1100 S-D*63.

1. Travail des Instituts Medico-Pharmaceutiques de Rusares, d'Hygiene de Pimisoara et de Microbiologie de Hanci.

TOPCIU, V1.; MARIN, I.; CUCURUZ, L.; ELIAS, I.M.; REICHRATH, S.; PORSCHE, T.; FRASINEL, N.

Isolation of strains of pathogenic Leptospira from rodents and humans. Stud. cercet. inframicrobiol., Bucur. 8 no.1:115-120 1957.

pathogenic strains isolated from rodents & humans in Bumania)

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BUSIIA, V.T.; POP. O.; VASILESCU, I.; TOPCIU, VI.; POPIAN, R.; CUCURUZ, L.; ALEXANDRESCU, R.; ISACSON, I.; SON, C.; CRAVCEVSCHI, V.; ZILBERMAN, L.; FITARAU, A.; JICMAH, M.

Clinical study of leptospirosis. Stud. cercet. inframicrobiol., Bucur. 8 no.2:259-280 1957.

1. Communicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. in sedinta din 5 marte 1956.

(LEPTOSPIROSIS

pathol. & epidemiol. of L. pomona, L. canicola & other leptospiral infect. in Rumania, case reports & review)

6-5

SUNDINE, Given Names

Country: Rumania

/not given7 Academic Degrees:

Affiliation: Epidemiology Section of the Timisoara Branch of the RPR Institute of Health (Sectia de Epidemiologie -- Institutul de Igiena RPR Filiala Timisoara) and The Ronat Health Circumscription (Circumscriptia Sanitara Ronat), Ronat, Timisoara. **XXXXXXX**

AKKAK.

Source: Timiso ara, Timiso ara Medicala, No 2, Jul-Dec 60, pp 65-69.

Data: "The Discovery of Coxsackie Virus in a Poliomyelitis Focus."

Co-authors:

REICHRATH, S., Epidemiology Section of the Timisoara Branch of the RPR Institute of Health; and The Ronat Health Circumscription,

Ronat, Timisara.
HICULESCU-WOLRAP, C., Epidemic logy Section of the Timisaara Branch of the RPR Institute of Health; and The Ronat Health Circumscrip. tion, Ronat, Timisoara.

1/2

679 981643

TOPCIU, V1.; KRAUSZ, N.; BOGDAN, Valeria

APPROVED FOR RELEASE 108/31/2001 160 CIA-RDP86-00513R001756310012-5"

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. in sedinta din 16 septembrie 1959. (KIDNEY DISEASES, etiology) (COXSACKIE VIRUSES, infection)

Topcio, V (A)

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees:

Affiliation: Agronomic Institute (Institutul Agronomic), Timisoara

Source: Bucharest, Probleme Zootehnice si Veterinare, Vol XI, No 10, Oct 1961, pp 48-51.

Data: "On Certain Rarely Encountered Clinical Symptoms in Pork Leptospirosis."

Authors:

GLUHOVSCHI, N., -Prof. Dr.TOPCIU, V., -Dr.GLAVAN, B., -Dr.-

RUMANIA

TOPCIU, VI., OLARU, Gh., BACILA, E., VOICULESCU, D., MOLDOVANU, E. and NEVINDGLOVSCHI, O. of the Institute of Hygiene and Public Health (Institutul de Igiena si Sanatate Publica), Timisoara.

"Contributions to the Study of the Influenza Epidemic of February-March 1962."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 5, 1963, pp 593-602.

Abstract [Authors' English summary modified]: The winter-spring 1952 influenza epidemic was caused by the same strain that caused the 1957 pandemic and the 1959 epidemic, namely virus A2. The authors describe the characteristics of the isolated strains, the dynamic evolution of the anit-influenza antibodies, and some clinical and epidiemological peculiarities of the epidemic. Because of the repeated immunizations during the 3 epidemic waves caused by the A2 strain and the induced resistance, the authors expect the inter-epidemic period to extend until the antigenic structure of the circulating influenza virus strains undergoes large changes.

Includes 6 figures, 1 table and 15 references, of which 2 Rumanian, 2 Russian, 1 French and 10 English-language.

1/1

TOPCIU, VI.; BARCARU, Elena; BAR, Fr.; FERENCZY, St.; MARTONY, A.

Methods of preparing the phagoresistant stems of Clostridium aceto-butylicum Weitzmanni, and results obtained from the laboratory and factory tests. Studii chim Timisoara 9 no.1/2:141-160 Ja-Je 162.

l. Fabrica de butanol-acetona "Solventul" si Institutul de Igiena, Timisoara.

TOPCIU, V1.; BARCARU, Elena; LEVIN, S.

Studies on the bacteriophagic and bacterial infections in the fermenting acetobutylic industry. Studii chim Timisoara 9 no.1/2:121-139 Ja-Je 162.

1. Fabrica de butanol-acetona "Solventul" si Institutul de Igiena, Timisoara.

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TOPCIU. VI.; OLARU, Gh.; BACILA, E.; VOICULESCU, D.; MOLDOVANU, E.; NEVINDGLOVSCHI, O.

Contributions to the study of the epidemic of influenza of February - March, 1962. Stud. cercet. inframicrobiol. 14 no.5:593-602 163.

(INFLUENZA) (EPIDEMIOLOGY)

OF THE STATE OF TH

TOPCIU, VI.; SPINU, I.; avec la collaboration de TRINH THI HANG CUY; VO VAN HUNG; CHU YAUN LOUNG; LE VAN TUYEN

Pathogenicity for guinea pigs of strains of Leptospira isolated from patients and convalescents in North Viet-Nam. Arch. Roum. path. exp. microbiol. 23 no.4:851-860 D 164.

- 1. Travail de l'Institut d'Hygiene et de Sante Publique, Timisosra
- et de l'Institut "Dr. I. Cantacuzino" (for Topciu, Spinu).
- 2. Institut de Microbiologie de Hanoi (for Trinh Thi Hang Cuy,
- Vo Van Hung, Chu Xaun Loung, Le Van Tuyen). Submitted May 15, 1904.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

RUMANIA

616.931-022.362

TOPCIU, VI., Dr., NICA, Al., Dr., LUSTREA, V., Dr., ALEXANDRESCU, N., Dr., and BACILA, E., Dr. Work performed at the Institute of Hygiene (Institutul de Igiena), Timisoara.

"Carriers of Toxigenetic Diphtheria Bacilli of the Gravis Type Showing Positive Cutaneous Reactions."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11,

Abstract [Authors' English summary modified]: A report on a study of 1,114 children from children's communities in which there were diphtheria outbreaks. Among these children 117 were found to be carriers of Corynebacterium diphtheriae, including ll who had a positive Schick reaction but showed no clinical symptoms of the disease. Antitoxin titration was carried out for 6 of the 11 Schick-positive carriers, and in 2 of them the level of antitoxin was found to be below the accepted protective value. It is assumed that the protection was due to antibacterial immunity or to local

Includes 13 references, of which 3 Rumanian, one Russian, 3 German and 6 Western.

1/1

- 13 -

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310

RUMANIA

576.8.097.35-085.371

TOPCIU, VI., PLAVOSIN-BABUSCEAC, Livia, CSAKY, N., RADU, M., VOICULESCU, D., TRANDAFIRESCU, Virginia, NICOLAU, I., STEFAN, Margareta, COMSULEA, Lia, and KECSKES, Elisabeta, of the Institute of Hygiene and Public Health (Institutul de Igiena si Sanatate Publica), Timisoara.

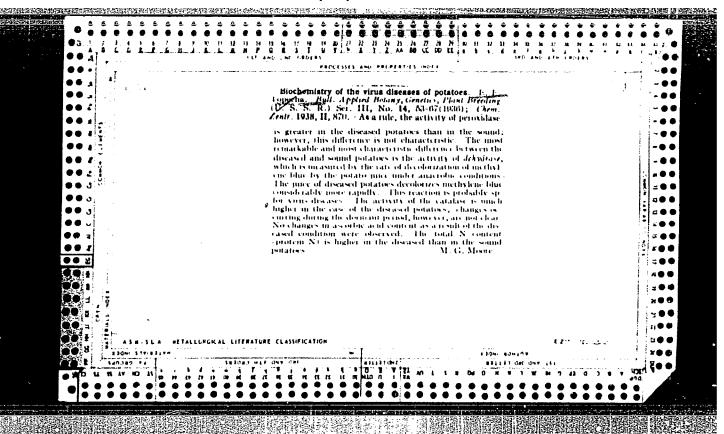
"The Evolution of Antivariolic Postvaccinal Immunity in Different Age Groups Expressed by the Titer of Agglutination Inhibition

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 17, No 4, 66, pp 317-321.

Abstract: In a study of 1,074 sera from persons of various ages, 84.3 percent contained various amounts of antivaccine hemagglutinating antibodies. The curve of average titer versus age shows 4 peaks corresponding to maternal antibodies, first vaccination, revaccination at 7 years, and revaccination in the armed services. Small titers of the antibodies persist throughout life, with higher levels for approximately 3 years following vaccination.

Includes 2 figures and 9 references, of which 2 Russian,

3 German and 4 Western.



"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5 AND CHARLES OF THE PROPERTY OF

TOPCZEWSKI, W.

"A Mill which Grinds Everything; K. Han's Invention Valuable to Agriculture." p. 26 "Machine for Cleaning the Oilseed Pumpkin." p. 27 (Plon, Vol. 5, No. 2, Feb. 1954, Warszawa)

East European SO: Monthly List of ARRESTAN Accessions, Library of Congress,

Vol. 3, No. 6

June

1954 4999, Uncl.

TOPEGIN, V.P., tekhnik.

Correcting faults of the PB-35 inlet insulators. Energetik 6 no.12: 19-20 D '58. (MIRA 11:12) (Electric insulators and insulation--Maintenance and repair)

AUTHOR:

Topegin, V.P., Technician

SOV/91-58-12-11/20

TITLE:

On Preventing Damage to PB-35 Partition Insulators (Ustra-

neniye defektov u prokhodnykh izolyetorov tipa PB-35)

PERIODICAL:

和1965年的1988年的1980年,1984年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1

Energetik, 1958, Nr 12, pp 19-20 (USSR)

ABSTRACT:

The new Soviet PB-35 partition insulators show corone discharges. The author reports that technicians of his area covered the inner metallic surface of the insulators with conducting graphite paint. Corona discharges were thereby

eliminated.

There is 1 diagram.

Card 1/1

Reconstructing the AKI-50 kenotron to test alternating current. Energetik 5 no.4:28 Ap '57. (MIRA 10:6)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

TOPEGIN, V.P., tekhnik

Applications of the \$50 devices. Energetik 11 no.5:34 My
163. (Electric meters)

(Electric meters)

ACCESSION NR: AT4033719

S/0000/64/000/000/0334/0345

AUTHOR: Stepanov, V.P.; Pridantsev, M.V.; Topilin, V.V.; Dzugutov, M. Ya.

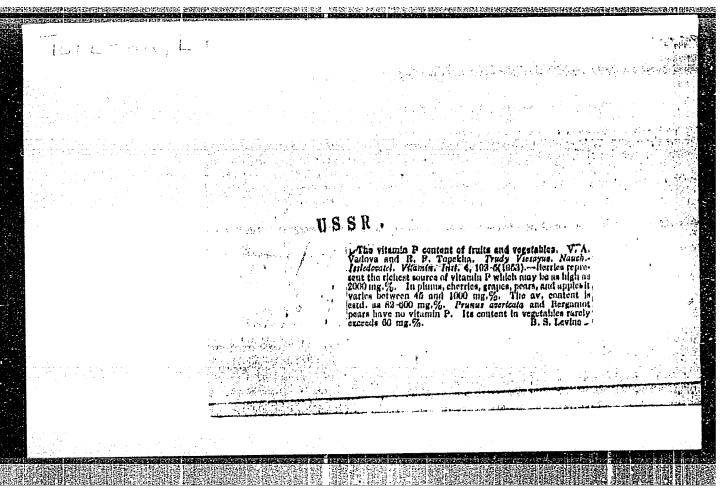
TITLE: Effect of inertial stirring of metal during crystallization on development of spotty liquation and ingot structure

SOURCE: USSR. Komissiya po fiziko-khimicheskim osnovam proizvodstva stali. Fizikokhimicheskiye osnovy* metallurgicheskikh protsessov (Physico-chemical basis of metallurgical processes); sbornik statey. Moscow, Metallurgizdat, 1964, 334-345

TOPIC TAGS: foundry technique, casting technique, heat resistant alloy, mold charge stirring, ingot structure, spotty liquation, mold rotation, inertial stirring

ABSTRACT: Ingots of heat resistant alloys (Cr-Ni cr Fe-Cr-Ni base with Ti, Al, B or other elements), weighing 50, 1000 and 2100 kg were cast with the mold charge stirred inertially while the metal crystallized. The shapes of the ingots were round and cylindrical, round with tapers of 8 or 15°, octahedral and triconical, respectively. Stirring was in the form of retrorotary motion of the suspended charged mold, the latter's return travel being 60 to 80° for the heavier ingots and 160 to 180° for the 50 kg pieces. Stirring periods ranged from 20 to 90 min. for the former and 5 to 39 min. for the latter, at frequencies of 8 to 25 agitations per minute. Stirring reduced or eliminated 1/2 Card

APPROVED FOR RELEASE 108/31/2001 CIA-RDP86-00513R001756310012



THE CONTROL OF THE PROPERTY OF

TOPEKHA, E. F.

"Physiological Effect of Hydrogen Sulfide and Prussic Acid on the Germination of Wheat Seed." Itogi Nauchno-Issledovatel skikh Rabot Vsesoiuznogo Instituta Zashchity Rastenii za 1936 Goda, part 1, 1937, pp. 96-99. 423.92 L541

So: Sira - Si-90-53, 15 Dec. 1953

TOPEKHA, E. F.

"Biochemistry of Pot-to Virus Diseases," <u>Trudy po Prikladnoi Botaniki, Genetike i Selektsii</u>, Seriia 3, no. 14, 1936, pp. 53-67. 451 R92P

So: Sira - Si-90-53, 15 Dec. 1953

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NEMCHINOV, I.V. (Moskva); TOPEKHA, L.P. (Moskva)

Boundary layer near the forward critical point of a cylinder in radiative heat transfer. FMTF no.4:29-35 N-D '60.

(MIRA 14:7)

(Boundary layer)

(Heat-Radiation and absorption)

USSR/Engineering
Microhardness Tests
Metals

"Methods of Measuring Microhardness During the
"tady of Thin Layers of Metals," B. I. Kostetskiy,
P. K. Topekha, Inst of Constr Mech, Acad Sci.
Ukrainian SER, 5. PP

"Zavod Lab" Vol XIV, No 8

Describes preparation of specimens and apparatus used. Determines minimum permissible distances between specimen edge and impression center, and between centers of neighboring impressions.
Tabulates results. Includes microphotographs.

3/49740

- 1. TOPEKHA, P. K.
- 2. USSR (600)
- 4. Surfaces (Technology)
- 7. Resistance to wear of metals under various speeds of sliding, Dop. AN URSR, No. 5, 1950.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

	1.	TOPEKHA, P.K.
	2.	USSR (600)
	4.	Friction
	7.	Experimental investigation of wear in metals due to oxidation and heat, Sbor. trud. Inst.stroi.mekh.AN URSR no. 16, 1952.
9.	Mo	nthly list of Ducaton Assess to the second s
,.	110	nthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

KOSTETSKIY, B.I., doktor tekhnicheskikh nauk; GOLEGO, N.L., kandidat tekhnicheskikh nauk;

TOPEKHA P.K. Pandidat tekhnicheskikh nauk.

Chemical analysis of surface layers of metals subjected to various types of wear. Vest.mash. 36 no.10:25-26 0 '56. (MLRA 9:11)

(Mechanical wear--Testing)

137-58-4-8322

STORY THE PERMIT

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 287 (USSR)

AUTHORS: Kostetskiy, B.I., Golego, N.L., Topekha, P.K.

TITLE: Chemical Analysis of the Surface Layers of Metal Under Various

Types of Wear (Khimicheskiy analiz poverkhnostnykh sloyev

metalla pri raznykh vidakh iznosa)

PERIODICAL: Tr. 1-y nauchno-tekhn. konferentsii. Kiyevsk. in-t grazhd.

vozdushn. flota. Moscow, 1956, pp 208-213

ABSTRACT: A method, notable for its simplicity and accuracy, has been

developed to investigate the chemical composition of surface layers subjected to friction and wear. This method consists of taking ordinary specimens having removable surface layers in the form of foil (δ 0.1-0.03 mm, U8A steel) fastened to their surfaces. Direct evidence testifying to the major role of O2 in the development and life of the major forms of wear, and to the positive role of oxidizing wear, which is characterized by a low rate of wear, a low coefficient of friction, and a high degree of surface smoothness, have been obtained. It is shown that atmos-

pheric N does not participate in the processes occurring in

Card 1/1 friction and wear. N.T.

> 1. Metals--Abrasion--Surface effects 2. Metals--Surface properties--Abrasion effects 3. Metals--Surface properties --Chemical analysis

137-58-6-13402

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 323 (USSR)

AUTHOR: Topekha, P. K.

TITLE: The Properties of the White Layers Which Appear With Friction and Wear (Priroda belykh sloyev, voznikayushchikh pri trenii i znose)

PERIODICAL: V sb.: Razvitiye teorii treniya i iznashivaniya. Moscow, AN SSSR, 1957, pp 204-212

ABSTRACT: Bibliographic entry. Ref. RzhMet, 1958, Nr 4, abstract 8236

Metals--Surface properties
 Metals--Friction
 Abrasion

Card 1/1

137-58-4-8324

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4. p 287 (USSR)

AUTHOR: Topekha, P.K.

TITLE: The Nature of the White Layers Arising on Friction and Wear (Priroda belykh sloyev voznikayushchikh pri treni: i iznose)

PERIODICAL: Tr. 1-y nauchno-tekhn. konferentsii. Kiyevsk. in-t grazhd. vozdushn. flota. Moscow, 1956, pp 214-226

ABSTRACT: Analysis of metal structure shows that white layers (WL) arise under oxidizing friction, i.e., at a rate of slide of 2.0 m/sec. During the first stage of oxidizing friction, a random solid solution of O2 in the metal comes into being. During the period of its formation, this structure is of increased mobility. It is etched poorly by the usual reagents. During the second stage, a second WL comes into being, which is separated from flowing layer beneath by a rectilinear boundary and is highly brittle. It is a chemical compound of O2 and the metal - a new phase that comes into being suddenly. It etches very poorly. WL forming by thermal wear consist of hardened metal of austenitic-martensitic structure.

Card 1/1

N.T.

1. Metals--Surface properties--Abrasion effects 2. Metals --Surface properties--Friction effects

CIA-RDP86-00513R001756310012-5 "APPROVED FOR RELEASE: 08/31/2001

137-58-2-4094

KERCAN TERRETARING TAKAN T

TOPEKHA, PK

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 262 (USSR)

Topekha, P.K. AUTHOR:

A Study of the Mechanism of Initial Wear in Cases of Dry Friction TITLE:

Between Steel Surfaces (Issledovaniye mekhanizma nachal'nogo

iznosa pri sukhom trenii stal'nykh poverkhnostey)

PERIODICALS: Tr. 1-y nauchno-tekhn. konferentsii. Kiyevsk. in-t grazhd. vozdushn. flota. Moscow, 1956, pp 140-152

ABSTRACT:

Tests were made of the wearing properties of steels $45\,$ and 10 at sliding speeds of 0.15 - 7.35 m/sec. A study was made of the effect had by the roughness of burnished and polished specimen surfaces and of the influence of the sliding speed on the quality of a surface on which wear had already begun. For a better understanding of the mechanism of initial wear, tests were made to ascertain the relative wear sustained by steel 45 after hardening and tempering. It was found that on the working surface of the specimens, once it was "worn in", there was a persistent "microroughness" which was characteristic of a given type of wear and was a function of sliding speed, load, and other external factors. The initial-wear or "wearing-in" mechanism is linked

Card 1/2

CIA-RDP86-00513R001756310012-5" APPROVED FOR RELEASE: 08/31/2001

137-58-2-4094

A Study of the Mechanism of Initial Wear in Cases of Dry Friction (cont.)

to certain processes which occur in the driving type of wear. It was found, too, that if the friction continuity is broken, the intensity of wear increases. It is when wear has already begun and friction continuity is broken that the

1. Steel--Friction 2, Friction--Test methods T.F. 3. Friction-Test results

Card 2/2

CIA-RDP86-00513R001756310012-5" **APPROVED FOR RELEASE: 08/31/2001**

KOSTETSKIY, B.I.; KOLFSNICHENNO, 1.F.; OSTROVOY, Yu.B.; NATANSON, M.E.; SKARCHENKOV, K.Z.; TOPEKHA, P.K.

Additives to lubricating oils and their effect in friction. Fiz.-khim. mekh. mat. 1 no.1:32-39 '65. (MIRA 19:1)

1. Kiysvskiy institut grazhdanskoy aviatsii. Submitted September 15, 1964.

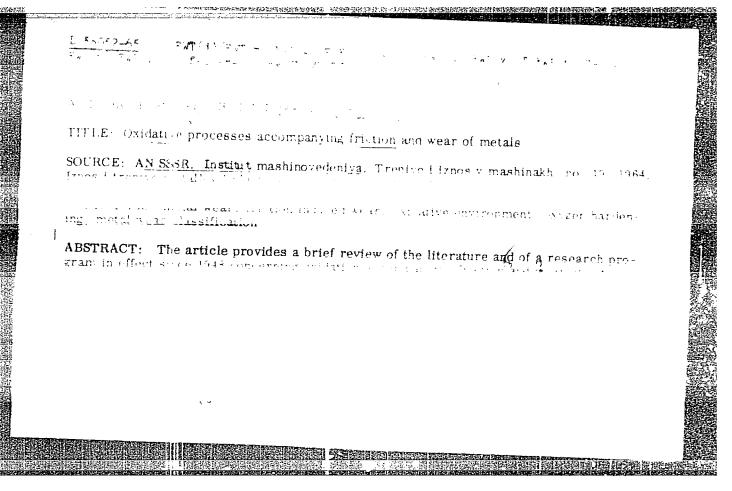
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	AUTHORS: K	ostetskiy, B. I	•; Natanson.	Y. R. Change	/0000/65/000/000/ kov, K. Z.; Topek	/0057/0060
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	nides and dit	hionates of con	ctive lubricat	ion oil additiv	es consisting of	Phodo (1)
	friction mach	es were tested ine KE-4 (B. I.	in aviation o Kostetskiy	(KIGVF-1, KIGV 11 MS-20 over a	F-2), were develorance of condition	complex lons on
a v	sible load (to	tor of 2 (at V : 2750 kg/cm ²),	= 300 rpm, P :	= 40 kg/cm ²), do	rhodenide decre which binding oc	ased pos-
	Card 1/2			- are sheed WE	which binding oc	cors

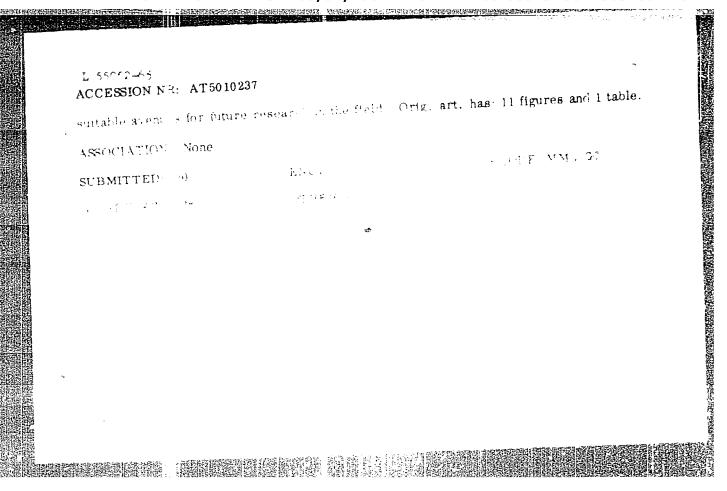
	表的研究的专家的证明。 		
L 00313-66 ACCESSION NR: AT5020432		The formational analysis and the second	
(to 13.10 m/sec) as compar- of KIGVF-1 (opt:mum concen- sponding improvement factor centration) gave 2-3, 1.3- ness of these additives de- spectral analysis was performal layers of the bearing concentration of Fe, C, N, resulted in values of 0.21	rs of 4-7, 1.6-2.1, and 1.9, and 2- to 4-fold impends on their chemical ormed to determine the Formula Surface. It was foun and S was 1, 1, 1, and	ee without additives. Addition 0.5-1.5% S in oil) gave corre- 4.5; KIGVF-2 (0.45-1.5% con- aprovements. Since the effective interaction with the surface, e. C. N. S content in the ex- d that if for pure MS-20 the 1, then addition of Cu rhodanide n of KIGVF-1 gave 0.70, 2.1,	
5, and 2.5 respectively.	orig. art. has: 2 table	AN SSSR (Scientific Committee	
SUBMITTED: 221/4765	ENCL: 00	SUB CODE: FP	
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Card 2/2			

KOSTETSKIY, B.I.; TOPEKHA, P.K.

Oxidizing processes during the friction and wear of matals.

Tren. 1 izn. v mash. no.19x66-78 '64. (MTHA 1R:3)





TO A DESCRIPTION OF THE PROPERTY OF THE PROPER

KOSTETSKIY, B.I. [Kostets'kyi, B.I.]; NATANSON, M.E.; SKARCHENKOV, K.Z.; TOPEKHA, P.K.

Selection of additives for lubricating oils. Dop. AN URSR no.11:1494-1497 '64. (MIRA 18:1)

1. Kiyevskiy institut Grazhdanskogo vozdushnogo flota. Predstavleno akademikom AN UkrSSR F.D. Ovcharenko.

S/137/61/000/007/067/072 A060/A101

AUTHORS: Kostetskiy, B. I.; Nosovskiy, I. G.; Golego, N. L.; Topekna, P.K.

TIFLE: Classification of metals and alloys according to their wear resist-

ance

PERIODICAL: Referativnyy zhurnal Metallurgiya, no. 7, 1961, 35, abstract 72h256 ("Ir. 3-y Vees. konferentail po treniyu 1 1znosu v mashinakh. T.I.", Moscow, AN SSSR, 1960, 15-27)

TEXT: In order to devise a classification of metals according to characteristics of their oxidability and seizability, a series of tests have been carried out on a friction machine KE-2 which makes it possible to conduct tests in different gaseous media. Specimens of Fe, steel 45. bp. AMu, (Br. AMts), bp. ALMu, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZhMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZHMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZHMts), Al, Sn, b-83 (B-83), Pb, bp.0-14 (Br.0-14), bp.C-30 (Br.S-30), Bi, (Br. AZHMts), Br.C-30 (Br.S-30), Bi, (Br.C-30), Bi, (Br.C-30)

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001756310012-5"

Classification of metals and alloys ...

8/137/61/000/007/067/072 A060/A101

from the friction surface, and the reduced wear of the specimens by weight and volume was determined. Under the metallographic analysis the friction surface was studied and the microhardness determined. A scheme for classifying materials according to their wear-resistance under friction and taking into account their seizability and oxidability is worked out, according to which all metals and alloys are divided into 4 groups. The first group includes Fe, Ou, and some of their alloys, and also Al which, although it shows a seizability of both kind I and kind II, under conditions of oxidizing friction forms protective oxide films which show good wear resistance due to a stable bond to the base metal and possess a high hardness. The second group includes metals and alloys not prone to seizing and which form protective oxide films with high wear resistance under oxidizing friction. Sn and its alloys and a whole series of antifriction metals and alloys belong to this group. The third group includes metals (Sb, Bi, Cd) which do not demonstrate seizability and under oxidizing friction form very fragile oxide films, which raise sharply the wear rate. The fourth group includes metals (Zn, Mg) which possess seizability and under conditions of oxidizing friction form easily disintegrating oxide films which also increase the wear rate.

L. Gordiyenko

[Abstracter's note: Complete translation]

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KOSTETSKIY, B.I.; HOSOVSKIY, I.G.; TOPEKHA, P.K.; TROTSIK, O.I.;
KARETA, N.L.

X-ray investigation of the structure of friction surfaces. Fig.
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1. Kiyevskiy institut grazhdanskogo vozdushnogo flota.
(Steel--Metallography) (Surfaces (Technology))

SOV/126-7-1-13/28 Topekha, P.K.,

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AUTHORS: Kostetskiy, B.I., Nosovskiy, I.G.,

Kareta, N.L. Trotsik, O.I. and

X-Ray Investigation of the Structure of Rubbing Surfaces (Rentgenograficheskoye issledovaniye struktury poverkhnostey TITLE:

treniya)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 1, pp 95-101, (USSR)

ABSTRACT: By means of a general metallographic analysis method it was established that in the course of service of steel in an oxidizing atmosphere, diffusion of oxygen atoms in steel takes place in plastically deformed layers of the parts rubbing against each other, as the result of which a layer forms on the rubbing surfaces, consisting of a solid solution of oxygen in iron and the chemical compounds FeO, Fe₂0₃ and Fe₃0₄ (Refs.1-3). These layers have been called "white unetchable layers"; however, there is no After a number of agreement yet as to their nature. investigations the authors concluded that the white layer, Card 1/6 forming in service at high temperatures, in grinding and in

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X-Ray Investigation of the Structure of Rubbing Surfaces

rapid cutting, is a hardened structure. In order to confirm the authors' hypothesis of the nature of white layers, and to elucidate the part played by oxygen in the mechanism of oxidizing wear, the necessity arose of carrying out a complex investigation of the white layers forming during oxidizing and thermal wear. Specimens of steel St.45 and Armco iron were rubbed by sliding. applied to the specimen in the experiment was maintained The rates of slip chosen were constant (10 kg/cm²). similar to those in oxidizing and thermal wear by A series of experiments carried out in various gaseous media (air, argon, oxygen) with the aim of creating favourable conditions for the The preparation development of various aspects of wear. of the metal surface layers for the investigation was carried out under certain definite experimental conditions. The specimens were tested on the KE-2 and KE-4 machines X-ray investigations, metallographic analysis and microhardness determinations of the rubbing surfaces and This complex study was Card 2/6 surface layers were carried out.

SOV/126-7-1-13/28 X-Ray Investigation of the Structure of Rubbing Surfaces

carried out, taking into consideration the conditions of the formation and properties of secondary structures arising in the course of rubbing, in connection with definite relationships known from the theory of wear. A series of specimens (see Table p.97) were prepared for this study. X-rays were used for the study of the phase composition of the thin surface layers of secondary structures forming during the rubbing process. The X-ray exposure was carried out by a narrow pencil of X-rays at a diameter of the illuminated portion of 0.12-0.15 mm. The diameter of the X-ray camera Irradiation from an iron anticathode was used. was 57 mm. The source of X-rays was a sharp focusing X-ray tube of B.Ya. Pines' construction. 150 exposures were taken. Fig.1 a photomicrograph of the rubbing surfaces of a specimen of steel St45, tested in air atmosphere, is shown. of slip was 0.4 m/sec. In Fig.2 the photomicrograph of the cross-section of the surface layers of the specimen, tested in an atmosphere of air, is shown. Fig. 3 is a photomicrograph of the rubbing surface of a steel St45 specimen, Card 3/6 tested in an atmosphere of air. The rate of slip was

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X-Ray Investigation of the Structure of Rubbing Surfaces

Fig.4 is a photomicrograph of the cross-section of surface layers of the specimen, tested in an atmosphere of air at a slip rate of 1.5 m/sec. Fig.5 is a photomicrograph of the wear surface of the specimen, which had been tested in an atmosphere of air at a slip rate of 6 m/sec. Fig.6 is a photomicrograph of the cross-section of the surface layers of the specimen which had been tested in an atmosphere of air at a slip rate of 6 m/sec. photomicrograph of the wear surface of the specimen which had been tested in an atmosphere of oxygen at a slip rate 1.5 m/sec. Fig.8 is a photomicrograph of the crosssection of the surface layers of the specimen which had been tested in an atmosphere of oxygen at a slip rate of As a result of experiments, the authors have arrived at the following conclusions: (1) Under various conditions of rubbing thin surface layers of iron and steel undergo a fundamental change in structure and composition, the nature of which is determined by the plastic deformation processes, heat evolutions during rubbing and chemical reactions between the metal and the surrounding

Card 4/6 medium.

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- (2) Investigations of the structure of the surface layers of steel and iron have confirmed the conclusions, arrived at by the authors in their work on the classification of the aspects of wear, as to the occurrence of oxidizing and thermal wear of metal.
- (3) An X-ray structural analysis of the rubbing surfaces of iron and steel has shown that in the first type of wear hardening no thermal and chemical reactions occur on the rubbing surfaces. The main process, determining this aspect of wear, is the plastic deformation of the metal, as well as the formation and destruction of metallic bonds. In oxidizing wear, the main factors are the chemical processes of the interaction between metal and oxygen from the air. In all series of experiments on the oxidizing wear, lattices of the chemical compounds FeO, Fe3O4 and ~-Fe2O3 were observed. In thermal wear the main factors are thermal processes taking place as the result of heat evolved due to rubbing. In this Card 5/6 aspect of wear, lattices and structures of austenite and

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X-Ray Investigation of the Structure of Rubbing Surfaces

austenite-martensite are observed in the rubbing surfaces of steel specimens.

There are 8 figures, 1 table and 10 Soviet references.

ASSOCIATION: Kiyevskiy institut grazhdanskogo vozdushnogo flota (Kiyev Institute of the Civil Air Fleet)

SUBMITTED: April 11, 1957

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TOPEKHA, Petr Pavlovich; KOVYZHENKO, V.V., otv. red.; SMAVZYUK,

[Problems of the unity of the trade-union movement in modern Japan] Voprosy edinstva profsoiuznogo dvimeniia v sovremennoi Laponii. Moskva, Izd-vo "Nauka," 1964. 162 p.

(MIRA 17:4)

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30-58-5-26/36 AUTHOR: Topekha, P. P., Candidate of Mistorical Sciences TITLE: Extension of the Scientific Relations Between Eastern and Western Countries (Rasshireniye nauchnykh svyazey vostochnykh i zapadnykh stran) PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 5, pp. 118-121 (USSR) ABSTRACT: At the end of October and the beginning of November of last year the Japanese National Commission to the UNESCO held an international symposium on the history of the cultural connections between the countries of the East and the West in Tokyo and Kyoto . 66 delegates and 75 guests from more than 20 countries of Asia, Europe and America took part in the work. The Soviet representatives were

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A. P. Okladnikov, T. N. Kary-Niyazov and the author of this article. 45 reports were heard. In this opening address the President of the Japanese that a better mutual understanding among the peoples, which is necessary for their

peaceful cooperation, can only be attained on the basis of

Extension of the Scientific Relations Between Eastern and Western Countries

a thorough knowledge and mutual respect of the respective cultures of these peoples. The symposium demonstrated the great achievements made by the scientists of Eastern countries. More than half of all participants were representatives of Eastern countries: India, Japan, Indonesia, Kambodia, Ceylon and others. The Soviet scientists submitted reports:

- 1) A. P. Okladnikov on the part played by ancient Pribaykal:ye in the cultural connections between East and West.
- 2) T. N. Kary-Niyazov on cultural connections of the peoples of Central Asia with the East in the Middle
- 3) P. P. Topekha on the establishment of cultural connections between Russia and Japan.

Further some shortcomings of the symposium are pointed out: the problems of the present cultural contacts were insufficiently treated; the limitation of the time of speech was too strictly handled. In the closing session the request was directed to the UNESCO whether it were not possible to establish an international organ that would perform translations of the

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Extension of the Scientific Relations Between Eastern 30-58-5-26/36 and Western Countries

Most important works in the field of humanitarian sciences. After the termination of the symposium A. P. Okladnikov in Kyoto held a lecture on the works of Soviet ar neologists and historians in the field of the ancient history of Primor'ye and Eastern Siberia. In Tokyo in the Society of USSR Research T. N. Kary-Niyazov reported on the cultural structure in Uzbekistan. By invitation of the President of Hosei University (Tokyo) the author held a lecture for students on the establishment of cultural relations between Japan and Russia. The Soviet delegation visited research institutes, museums, schools and had meetings with Japanese scientists.

1. Scientific intelligence 2. Social sciences 3. Political sciences

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